SHARP

MIKRO KOMPONENTEN SYSTEM
MICRO-CHAÎNE
SISTEMA MICRO
MIKRO KOMPONENT SYSTEM
MICRO SISTEMI
MICRO SYSTEEM
SISTEMA DE MICRO COMPONENTE
MICRO COMPONENT SYSTEM

MODELL	**MODELLO**
MODÈLE	**MODEL**
MODELO	**MODELO**
MODELL	**MODEL**

XL-HP888H

BEDIENUNGSANLEITUNG	**MANUALE DI ISTRUZIONI**
MODE D'EMPLOI	**GEBRUIKSAANWIJZING**
MANUAL DE MANEJO	**MANUAL DE OPERAÇÃO**
BRUKSANVISNING	**OPERATION MANUAL**

COMPACT disc DIGITAL AUDIO

R·D·S

Active Subwoofer System

SAVING ENERGY STAND-BY POWER CONSUMPTION 0.6W

MP3

Mikro Komponenten System XL-HP888H besteht aus XL-HP888H (Hauptgerät), CP-HP888H (Lautsprechersystem) und CP-SW888H (aktiver Subwoofer).

Micro-chaîne XL-HP888H composée de XL-HP888H (appareil principal), CP-HP888H (enceinte acoustique) et CP-SW888H (woofer actif).

Sistema micro XL-HP888H que consta de XL-HP888H (aparato principal) CP-HP888H (sistema de altavoces) y CP-SW888H (altavoz de subgraves activo).

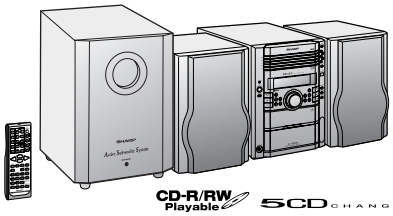
XL-HP888H mikro komponent system bestående av XL-HP888H (huvudenhet) CP-HP888H (högtalarsystem) och CP-SW888H (aktiv subwoofer).

Micro sistemi XL-HP888H composto da XL-HP888H (apparecchio principale), CP-HP888H (sistema di diffusori) e CP-SW888H (subwoofer attivo).

XL-HP888H micro systeem bestaande uit XL-HP888H (hoofdtoestel), CP-HP888H (luidsprekersysteem) en CP-SW888H (actieve subwoofer).

XL-HP888H Sistema de Micro Componente composto de XL-HP888H (unidade principal), CP-HP888H (sistema de alto-falante) e CP-SW888H (caixa de alto-falante para sons graves ativa).

XL-HP888H Micro Component System consisting of XL-HP888H (main unit), CP-HP888H (speaker system) and CP-SW888H (active subwoofer).



CD-R/RW Playable

5CD CHANGER

DEUTSCH	**··· Siehe Seiten i bis vi und D-1 bis D-46.**
FRANÇAIS	**··· Se reporter aux pages i à vi et F-1 à F-46.**
ESPAÑOL	**··· Consulte las páginas i a vi y S-1 a S-46.**
SVENSKA	**··· Hänvisa till sidorna i till vi och V-1 till V-46.**
ITALIANO	**··· Leggere le pagine i a vi e I-1 a I-46.**
NEDERLANDS	**··· Raadpleeg de bladzijden i t/m vi en N-1 t/m N-46.**
PORTUGUÊS	**··· Favor consultar as páginas i a vi e P-1 a P-46.**
ENGLISH	**··· Please refer to pages i to vi and E-1 to E-46.**

04/1/28 XL-HP888H(H)_FRONT.fm TINSZA041AWZZ

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XL-HP888H

BESONDERE ANMERKUNGEN
REMARQUES SPÉCIALES
NOTAS ESPECIALES
SÄRSKILDA ANMÄRKNINGAR
NOTE PARTICOLARI
BIJZONDERE OPMERKINGEN
NOTAS ESPECIAIS
SPECIAL NOTES

- Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.
- Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.
- Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.
- Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.
- Quest'apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.
- **Dichiarazione di conformità**
  La società SHARP ELECTRONICS EUROPE GmbH dichiara che il prodotto SHARP MICRO SISTEMI XL-HP888H è costruito in conformità alle prescrizioni del D.M.n˚548 del 28/8/95, pubblicato sulla G.U.n˚301 del 28/12/95 ed in particolare è conforme a quanto indicato nell'art. 2, comma 1 dello stesso decreto.
- Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.
- Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.
- This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.
- Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillaeg nr. 93/68/EEC.
- Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.
- Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.
- Η εγκατάσταση αυτή ανταποκρίνεται στις απαιτήσεις των οδηγιών της Ευρωπαϊκής Ενωσης 89/336/ΕΟΚ και 73/23/ΕΟΚ, αυτοί συμπληρώθηκαν από την οδηγία 93/68/ΕΟΚ.

- Bei Einstellung der ON/STAND-BY-Taste auf STAND-BY ist die Netzspannung immer noch im Gerät vorhanden.
  Wenn die ON/STAND-BY-Taste auf STAND-BY eingestellt wird, kann das Gerät unter Verwendung der Timer-Betriebsart oder Fernbedienung in Betrieb gesetzt werden.
  Warnung:
  In diesem Gerät sind keine vom Benutzer wartbaren Teile vorhanden. Niemals Abdeckungen entfernen, außer wenn Sie dafür qualifiziert sind. In diesem Gerät sind gefährliche Spannungen vorhanden. Vor Ausführung von irgendwelchen Kundendienstarbeiten oder bei längerer Nichtverwendung des Gerätes stets den Netzstecker aus der Netzsteckdose ziehen.
- Lorsque la touche ON/STAND-BY est mise en STAND-BY, l'appareil est toujours sous tension.
  Lorsque la touche ON/STAND-BY se trouve sur la position STAND-BY, l'appareil est prêt à fonctionner par la minuterie ou la télécommande.
  Avertissement:
  Cet appareil contient des pièces non réparables par l'utilisateur. Personne non qualifiée n'enlèvera jamais les couvercles. L'appareil contenant des organes portés à haute tension, débrancher l'appareil avant toute réparation ou en période de non-utilisation.

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● Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, todavía hay tensión dentro del aparato.
Cuando el botón ON/STAND-BY está puesto en la posición STAND-BY, el aparato puede ponerse en funcionamiento utilizando el modo del temporizador o el controlador remoto.

Advertencia:
Tenga en cuenta que dentro de este aparato no hay piezas que pueda reparar. No quite nunca las tapas a menos que se esté cualificado para hacerlo. Este aparato tiene en su interior tensiones peligrosas.
Desenchufe siempre la clavija de la red del tomacorriente antes de realizar cualquier servicio de mantenimiento y cuando no se use el aparato durante un largo período de tiempo.

● När ON/STAND-BY knappen är i läge STAND-BY, finns nätspänning i apparaten.
Med ON/STAND-BY knappen i läge STAND-BY kan apparaten startas med timerfunktion eller fjärrkontrollen.

Varning:
Apparaten innehåller inga delar som kan åtgärdas av kunden. Höljet får endast öppnas av kvalificerad personal. Apparaten innehåller farliga spänningar.
Stickkontakten ska därför dras ut från nätuttaget före reparationsarbeten och bör dras ut om apparaten inte ska användas på mycket länge.

● Quando il tasto ON/STAND-BY si trova in posizione STAND-BY, all'interno dell'apparecchio c'è ancora la corrente.
Se il tasto ON/STAND-BY si trova nella posizione STAND-BY, l'unità può essere accesa con il modo timer o con il telecomando.

Avvertenza:
L'apparecchio non contiene parti riparabili dall'utente.
Non togliere mai i coperchi, a meno di non essere qualificati per farlo. All'interno dell'apparecchio ci sono tensioni pericolose, per cui si deve sempre staccare la spina del cavo d'alimentazione dalla presa di corrente prima di qualsiasi intervento di manutenzione e quando non si usa l'apparecchio per un lungo periodo di tempo.

● Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, loopt er nog steeds stroom (netspanning) in het toestel.
Wanneer de ON/STAND-BY toets in de STAND-BY stand staat, kan het toestel ingeschakeld worden via de timerfunctie of de afstandsbediening.

Waarschuwing:
Dit toestel bevat geen door de gebruiker te repareren onderdelen. Verwijder de behuizing nooit tenzij u deskundig bent op dit gebied. In het toestel loopt een gevaarlijke spanning; haal de stekker altijd uit het stopcontact alvorens onderhoud uit te voeren of wanneer het toestel voor langere tijd niet gebruikt wordt.

● Quando o botão ON/STAND-BY estiver ajustado na posição STAND-BY, a voltagem de alimentação ainda se encontra presente dentro do aparelho.
Quando o botão ON/STAND-BY estiver ajustado na posição STAND-BY, o aparelho pode ser colocado em operação através do modo de programação horária ou pelo controle remoto.

Advertência:
Neste aparelho não há partes que podem ser consertadas pelo usuário. Nunca retire a tampa, a menos que você tenha qualificação para tal. Este aparelho contém voltagens perigosas. Remova sempre o cabo de alimentação da tomada antes de efetuar qualquer conserto ou quando deixar o aparelho muito tempo fora de uso.

● When the ON/STAND-BY button is set at STAND-BY position, mains voltage is still present inside the unit.
When the ON/STAND-BY button is set at STAND-BY position, the unit may be brought into operation by the timer mode or remote control.

Warning:
This unit contains no user serviceable parts. Never remove covers unless qualified to do so. This unit contains dangerous voltages, always remove mains plug from the socket before any service operation and when not in use for a long period.

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- Når ON/STAND-BY-knappen er sat i STAND-BY positionen, er der stadig netspaending til stede i apparatet.
  Når ON/STAND-BY-knappen er sat i STAND-BY position, kan apparatet startes v.hj.a. timer-funksionen eller fjernbetjeningen.

  Advarsel:
  Apparatet indeholder ingen dele, der kan repareres af brugeren selv. Fjern aldrig kabinettet med mindre De er kvalificeret hertil. Apparatet indeholder farlig strømspaending. Traek altid stikket ud af stikkontakten før der foretages reparationer, eller hvis apparatet ikke er i brug i laengere tid.

PŘED SEJMUTÍM KRYTU NUTNO VYJMOUT VIDLICI ZE SÍŤOVÉ ZÁSUVKY.

PRED ZLOŽENÍM KRYTU JE NUTNÉ ODPOJIŤ PRÍSTROJ ZO SIETE.

DENNA APPARAT ÄR ANSLUTEN TILL 230 V VÄXELSTRÖM NÄR STICKPROPPEN ÄR INSKJUTEN I VÄGGUTTAGET. FÖR ATT FULLSTÄNDIGT KOPPLA IFRÅN APPARATEN, V.G. DRAG UT STICKPROPPEN.

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- **Vorsicht:**
  Das Gerät weder Tropf- noch Spritzwasser aussetzen. Ansonsten besteht die Gefahr eines Brandes oder elektrischen Schlages. Es dürfen keine mit Flüssigkeiten gefüllten Gegenstände wie Vasen auf dem Gerät abgestellt werden.
- **Attention:**
  Pour éviter un incendie ou une secousse électrique, mettre l'appareil à l'abri de l'eau (éclaboussure, goutte). Ne pas poser sur l'appareil un récipient contenant du liquide.
- **Advertencia:**
  Para evitar incendios y descargas eléctricas, no exponga el aparato a goteo o salpicadura de líquidos. No deberán ponerse encima del aparato objetos que estén llenos de líquido, como por ejemplo un florero.
- **Varning:**
  Utsätt inte enheten för dropp eller stänk för att förhindra brand eller elektriska stötar. Inga vätskefyllda föremål såsom vaser får placeras på enheten.
- **Attenzione:**
  Per prevenire incendi o scosse elettriche, non fare gocciolare nessun liquido sull'apparecchio e non bagnarlo. Non collocarvi sopra nessun oggetto riempito d'acqua, come per esempio vasi.
- **Waarschuwing:**
  Stel het toestel niet bloot aan druipend of spattend water om brand en elektrische schokken te voorkomen. Met vloeistoffen gevulde voorwerpen, zoals vazen, mogen niet op het toestel geplaatst worden.
- **Cuidado:**
  Para evitar incêndio ou choque elétrico, não exponha este aparelho a gotejamento ou salpicamento de água. Não coloque objetos com água como, por exemplo, um vaso de flores, em cima do aparelho.
- **Warning:**
  To prevent fire or shock hazard, do not expose this appliance to dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the apparatus.

- **Advarsel:**
  Til at forbygge ild og stød risiko, lad vaere med at undsaette denne indretning for drypning eller overstaenkning. Der må ikke anbringes nogen genstande fyldt med vand, som for eksempel vaser, på dette apparat.
- **Advarsel:**
  For å unngå brann eller kortslutning, utsett ikke produktet for vann eller fuktighet. Gjenstander som inneholder vaeske, feks. en blomstervase, må ikke plasseres oppå apparatet.
- **Varoitus:**
  Älä vie laitetta sateeseen tai kosteisiin tiloihin. Jos laite on kostunut, anna sen kuivua ennen kuin käytät sitä verkkovirralla. Nestettä sisältäviä astioita kuten esim. kukkamaljakoita ei saa asettaa laitteen päälle.

PŘÍSTROJ NEVYSTAVUJTE KAPAJÍCÍ NEBO STŘÍKAJÍCÍ VODĚ.

PRÍSTROJ NEVYSTAVUJTE KVAPKAJÚCEJ ALEBO STRIEKAJÚCEJ VODE.

Urządzenie należy chronić przed zalaniem i wilgocią.

- Dieses Produkt ist ein Laserprodukt der Klasse 1.
- Ce produit est classifié comme étant un LASER DE CLASSE 1.
- Este producto está clasificado como un PRODUCTO LÁSER DE CLASE 1.
- Denna produkt klassificeras som KLASS 1 LASERPRODUKT.
- Questo prodotto è classificato come CLASS 1 LASER PRODUCT.
- Dit product is geclassificeerd als een KLASSE 1 LASER PRODUCT.
- Este produto é classificado como PRODUTO LASER DE CLASSE 1.
- This product is classified as a CLASS 1 LASER PRODUCT.

- Dette produktet er klassifisert som et KLASSE 1 LASERPRODUKT.
- Dette produkt er klassificeret som et KLASSE 1 LASERPRODUKT.
- Tämä laite on luokiteltu LUOKAN 1 LASERLAITTEEKSI.
- Denna produkt klassificeras som KLASS 1 LASERAPPARAT.
- Tento výrobek je klasifikován jako LASEROVÝ VÝROBEK TŘÍDY 1.
- Tento výrobok je klasifikovaný ako LASEROVÝ VÝROBOK TRIEDY 1.

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● **VORSICHT**
Verwendung von Regelungen oder Einstellungen bzw. Durchführung von anderen Verfahren als die hierin angegebenen kann zum Aussetzen gefährlicher Strahlung führen.

Da der in diesem Compact Disc Player verwendete Laserstrahl für die Augen schädlich ist, ist das Gehäuse unter keinen Umständen zu zerlegen.
Wenden Sie sich für Wartungsarbeiten nur an berechtigten Fachhändler.

● **ATTENTION**
Respecter les indications données relatives à la manipulation, au réglage et au fonctionnement. En cas de non-respect, on s'exposera à une radiation dangereuse.

Éviter absolument de démonter l'appareil, qui utilise un rayon laser nuisible aux yeux. Pour toute réparation, s'adresser à une personne qualifiée.

● **PRECAUCIÓN**
El uso de los controles, ajustes o ejecución de procedimientos distintos de los especificados podría causar la exposición a radiación peligrosa.

No intente desmontar la caja ya que el haz de láser usado en este reproductor de discos compactos es perjudicial para los ojos. Para el servicio de reparación, consulte a una persona cualificada.

● **OBSERVERA**
Användning av reglage eller justeringar eller handhavande på annat sätt än som anges kan leda till farlig bestrålning.

Försök inte ta isär höljet eftersom CD-spelarens laserstråle är skadlig för ögonen. Överlåt service endast till kvalificerad personal.

● **ATTENZIONE**
L'uso dei comandi e l'effettuazione di regolazioni e procedimenti diversi da quelli specificati nel manuale possono provocare una pericolosa esposizione alle radiazioni.

Poiché il raggio laser usato in questo giradischi può danneggiare gli occhi, non smontare l'apparecchio. Per le riparazioni rivolgersi a personale specializzato.

● **LET OP**
Gebruik van regelaars, het maken van instellingen, gebruik of handelingen anders dan in deze gebruiksaanwijzing vermeld, kan gevaarlijke straling blootleggen.

De laserstraal in deze CD-speler kan de ogen beschadigen, Probeer derhalve de ombouw niet te verwijderen. Laat reparaties alleen over aan erkend onderhoudspersoneel.

● **CUIDADO**
O uso de controles, ajustes ou a execução de procedimentos além daqueles especificados aqui pode resultar em perigosa exposição à radiação.

Como os raios laser usados neste player de CD são perigosos para os olhos, não tente desmontar o aparelho. Solicite o conserto somente para pessoas especializadas.

● **CAUTION**
Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

VÝSTRAHA: VÝROBEK JE VYBAVEN LASEREM. PŘI NESPRÁVNÉ MANIPULACI S PŘÍSTROJEM V ROZPORU S TÍMTO NÁVODEM MŮŽE DOJÍT K NEBEZPEČNÉMU OZÁŘENÍ. NEOTVÍREJTE A NESNÍMEJTE PROTO ŽÁDNÉ KRYTY A PŘÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS SVĚŘTE ODBORNÉMU SERVISU.

VÝSTRAHA: VÝROBOK JE VYBAVENÝ LASEROM. PRI NESPRÁVNOM MANIPULOVANÍ S PRÍSTROJOM V ROZPORE S TÝMTO NÁVODOM MÔŽE DÔJSŤ K NEBEZPEČNÉMU OŽIARENIU. NEODKRÝVAJTE PRETO ŽIADNE KRYTY A PRÍSTROJ NEOPRAVUJTE. OPRAVU A SERVIS PRENECHAJTE ODBORNÉMU SERVISU.

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Eigenschaften der Laserdiode
Material: GaAlAs
Wellenlänge: 780 nm
Emissionsdauer: kontinuierlich
Laser-Ausgang: max. 0,6 mW

Caractéristiques de la diode laser
Matière: GaAlAs
Longueur d'onde: 780 nm
Durée d'émission: ininterrompue
Puissance de sortie laser maximale: 0,6 mW

Características del diodo láser
Material: GaAlAs
Longitud de onda: 780 nm
Duración de emisión : continua
Salida de láser: máx. 0,6 mW

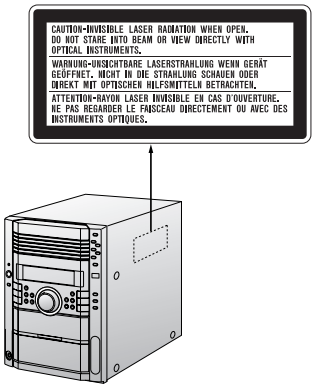
Laserdiodens egenskaper
Material: GaAlAs
Våglängd: 780 nm
Utstrålningsvaraktighet: kontinuerlig
Lasereffekt: max. 0,6 mW

Proprietà del diodo laser
Materiale: GaAlAs
Lunghezza d'onda: 780 nm
Durata di emissione: continua
Uscita massima del laser: 0,6 mW

Laser diode specificaties
Materiaal: GaAlAs
Golflengte: 780 nm
Stralingsduur: doorlopend
Laseruitgang: max. 0,6 mW

Propriedades do diodo laser
Material: GaAlAs
Comprimento de onda: 780 nm
Duração da emissão: contínua
Saída de laser: máx. 0,6 mW

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission Duration: continuous
Laser Output: max. 0.6 mW


CAUTION-INVISIBLE LASER RADIATION WHEN OPEN.
DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.
WARNUNG-UNSICHTBARE LASERSTRAHLUNG WENN GERÄT GEÖFFNET. NICHT IN DIE STRAHLUNG SCHAUEN ODER DIREKT MIT OPTISCHEN HILFSMITTELN BETRACHTEN.
ATTENTION-RAYON LASER INVISIBLE EN CAS D'OUVERTURE. NE PAS REGARDER LE FAISCEAU DIRECTEMENT OU AVEC DES INSTRUMENTS OPTIQUES.

ADVERSEL-SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN-HELLER IKKE MED OPTISKE INSTRUMENTER.

VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ TUIJOTA SÄTEESEEN ÄLÄKÄ KATSO SITÄ OPTISEN LAITTEEN LÄPI.

VARNING-SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN OCH BETRAKTA EJ STRÅLEN GENOM OPTISKT INSTRUMENT.

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASER-STRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

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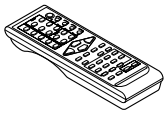
Introduction

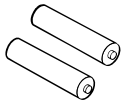
Thank you for purchasing this SHARP product. To obtain the best performance from this product, please read this manual carefully. It will guide you in operating your SHARP product.

Accessories

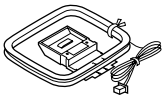
Please confirm that the following accessories are included.



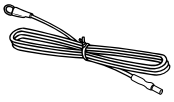
Remote control × 1



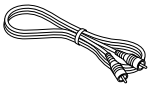
"AA" size battery (UM/SUM-3, R6, HP-7 or similar) × 2



AM loop aerial × 1



FM aerial × 1



Subwoofer cable × 1

Note:
Only the above accessories are included.

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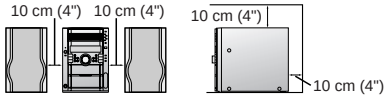
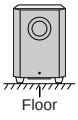
Precautions

■ General

- Please ensure that the equipment is positioned in a well ventilated area and ensure that there is at least 10 cm (4") of free space along the sides, top and back of the equipment.



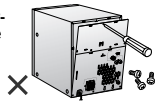
- **Do not place active subwoofer system on the same surface as main unit to prevent sound interruption during playback.**



- Use the unit on a firm, level surface free from vibration.
- Keep the unit away from direct sunlight, strong magnetic fields, excessive dust, humidity and electronic/electrical equipment (home computers, facsimiles, etc.) which generate electrical noise.
- Do not place anything on top of the unit.
- Do not expose the unit to moisture, to temperatures higher than 60°C (140°F) or to extremely low temperatures.
- If your system does not work properly, disconnect the AC power lead from the wall socket. Plug the AC power lead back in, and then turn on your system.
- In case of an electrical storm, unplug the unit for safety.

- Hold the AC power plug by the head when removing it from the wall socket, as pulling the lead can damage internal wires.

- **Do not remove the outer cover, as this may result in electric shock. Refer internal service to your local SHARP service facility.**



- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, tablecloths, curtains, etc.

- No naked flame sources, such as lighted candles, should be placed on the apparatus.
- Attention should be drawn to the environmental aspects of battery disposal.
- The apparatus is designed for use in moderate climate.
- This unit should only be used within the range of 5°C - 35°C (41°F - 95°F).

Warning:
The voltage used must be the same as that specified on this unit. Using this product with a higher voltage other than that which is specified is dangerous and may result in a fire or other type of accident causing damage. SHARP will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.

■ Volume control

The sound level at a given volume setting depends on speaker efficiency, location, and various other factors. It is advisable to avoid exposure to high volume levels. Do not turn the volume on to full at switch on and listen to music at moderate levels.

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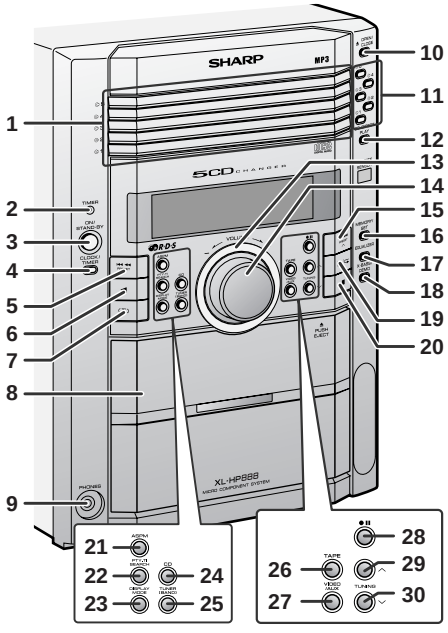
Controls and indicators



■ Front panel

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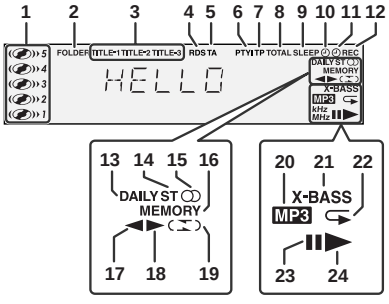

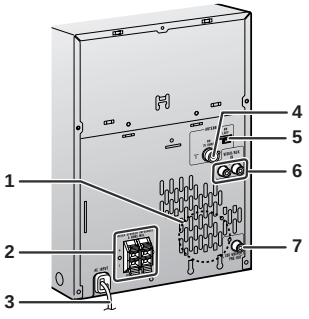

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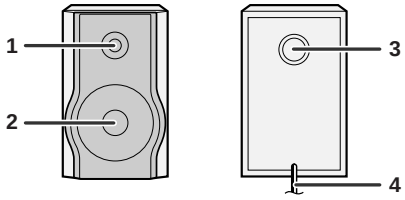
Controls and indicators (continued)



■ Speaker system

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2. Woofer
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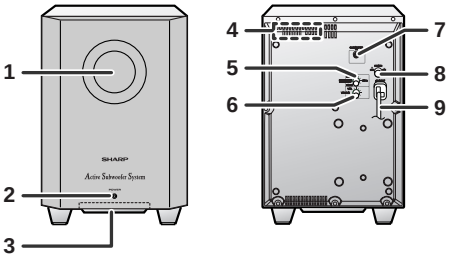

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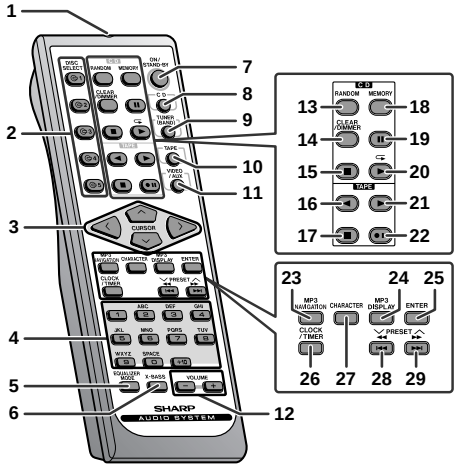

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29. Disc Track Up or Fast Forward, Tape Fast Wind, Tuner Preset Up, Time Up Button 14, 17, 26, 28

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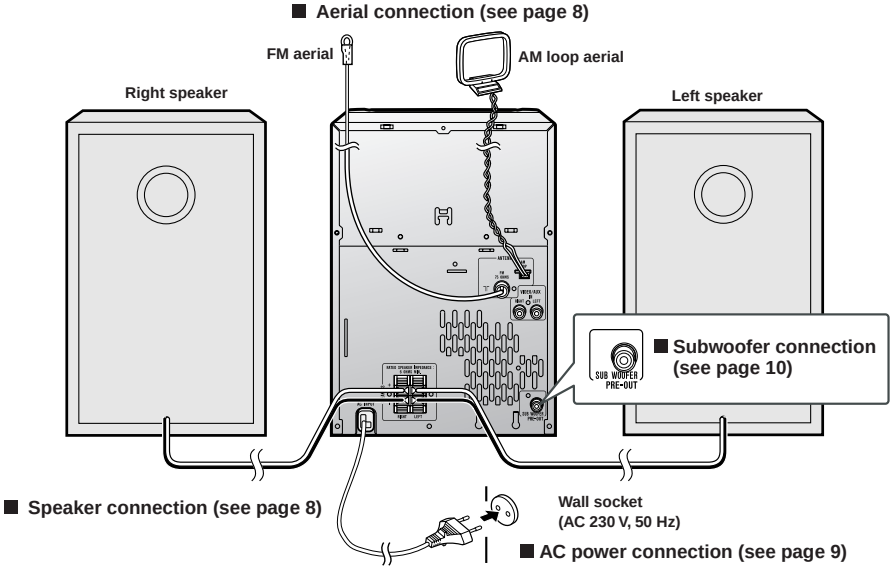
System connections

Make sure to unplug the AC power lead before any connections.


■ Aerial connection (see page 8)
FM aerial
AM loop aerial
Right speaker
Left speaker
SUB WOOFER PRE-OUT
■ Subwoofer connection (see page 10)
■ Speaker connection (see page 8)
Wall socket
(AC 230 V, 50 Hz)
■ AC power connection (see page 9)

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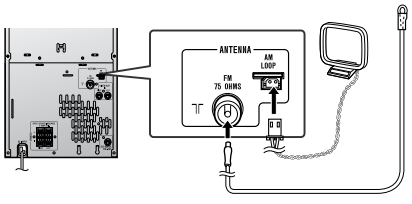
■ Aerial connection

Supplied FM aerial:
Connect the FM aerial wire to the FM 75 OHMS socket and position the FM aerial wire in the direction where the strongest signal can be received.

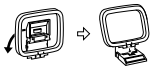
Supplied AM loop aerial:
Connect the AM loop aerial to the AM LOOP socket. Position the AM loop aerial for optimum reception. Place the AM loop aerial on a shelf, etc., or attach it to a stand or a wall with screws (not supplied).



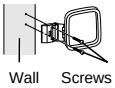
Note:
Placing the aerial on the unit or near the AC power lead may cause noise pickup. Place the aerial away from the unit for better reception.

Installing the AM loop aerial:

< Assembling >



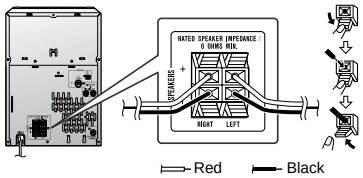
< Attaching to the wall >



Wall Screws (not supplied)

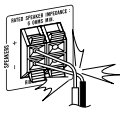
■ Speaker connection

Connect the black wire to the minus (-) terminal, and the red wire to the plus (+) terminal.



Caution:

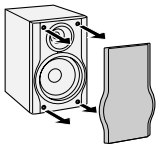
- Use speakers with an impedance of 6 ohms or more, as lower impedance speakers can damage the unit.
- Do not mistake the right and the left channels. The right speaker is the one on the right side when you face the unit.
- **Do not let the bare speaker wires touch each other.**
- Do not allow any objects to fall into or to be placed in the bass reflex ducts.
- Do not stand or sit on the speakers. You may be injured.



Incorrect

■ Speaker grilles are removable

Make sure nothing comes into contact with the speaker diaphragm when you remove the speaker grilles.



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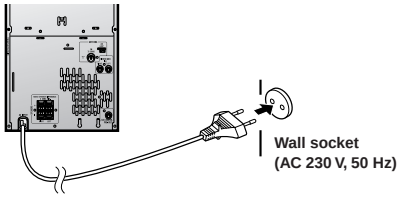
System connections (continued)

■ AC power connection

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket. If you plug in the unit first, the unit will enter the demonstration mode.

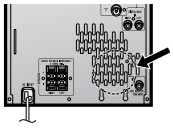


Notes:

- The unit will start the tape initialisation when plugged in to the AC socket. During this process, initialising sound will be heard and the unit cannot be turned on. Wait until the process is finished.
- Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

Cooling fan:

This product is equipped with a cooling fan inside, which begins to run at a specified volume level for better heat radiation.



■ Demonstration mode

The first time the unit is plugged in, the unit will enter the demonstration mode. You will see words scroll.

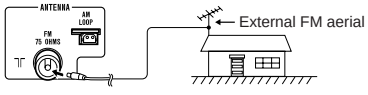
To cancel the demonstration mode:
When the unit is in the power stand-by mode (demonstration mode), press the X-BASS/DEMO button. The unit will enter the low power consumption mode.

To return to the demonstration mode:
When the unit is in the power stand-by mode, press the X-BASS/DEMO button again.

Note:
When the power is on, the X-BASS/DEMO button can be used to select the extra bass mode.

■ External FM aerial

Use an external FM aerial if you require better reception. Consult your dealer.



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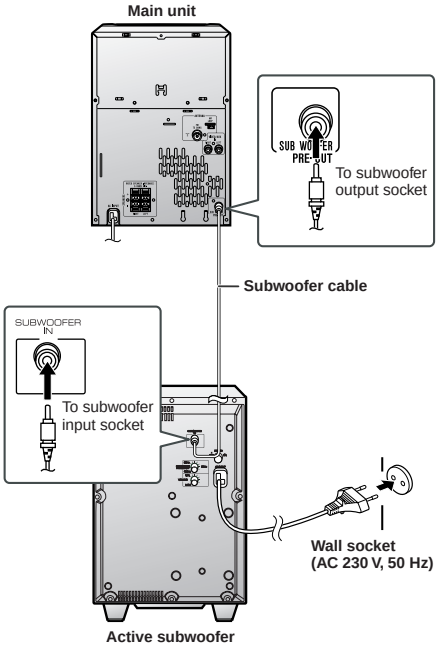
Subwoofer connection



Make sure to unplug the AC power lead of main unit before any connections.

■ Connecting the subwoofer

Use the subwoofer cable to connect the SUB WOOFER PRE-OUT socket on the main unit and the SUBWOOFER IN socket on the active subwoofer.

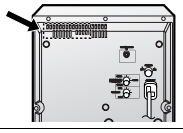
■ Connecting the AC power lead

After checking all the connections have been made correctly, plug the AC power lead of this unit into the wall socket.

Note:
Unplug the AC power lead from the wall socket if the unit will not be in use for a prolonged period of time.

Cooling fan:

This product is equipped with a cooling fan inside, which begins to run once the power is on for better heat radiation.



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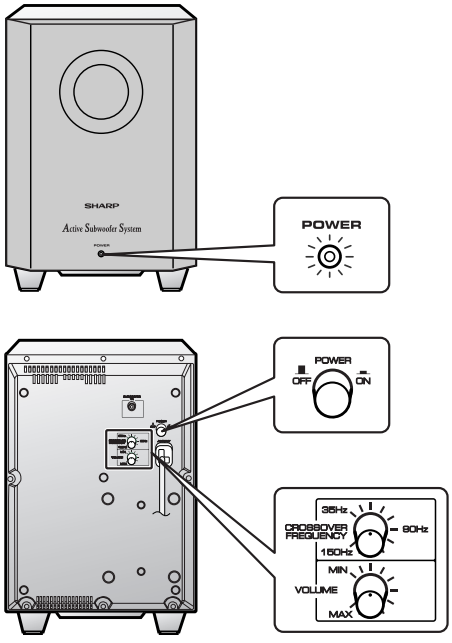
Subwoofer control



■ Power switch

The POWER indicator lights up when you press the POWER switch to ▬ ON.

■ Volume control

Turn the VOLUME control clockwise to increase the volume, and turn it anti-clockwise to decrease the volume.

■ Crossover frequency control

Adjust the high frequency cut-off point. Frequencies higher than the set frequency are removed.
To emphasise the bass, turn this control towards 35 Hz and increase the volume.

Notes:
Observe the following to avoid malfunction and sound distortion.

- Do not set the volume too high on the main unit. The subwoofer may be damaged.
- Before you switch on/off on the main unit, minimise the volume on the main unit.

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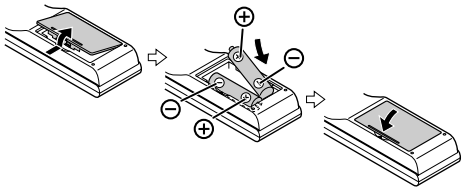
Remote control

■ Battery installation

1 Remove the battery cover.
2 Insert the supplied batteries according to the direction indicated in the battery compartment.
When inserting or removing the batteries, push them towards the ⊖ battery terminals.
3 Replace the cover.



Precautions for battery use:
- Replace all old batteries with new ones at the same time.
- Do not mix old and new batteries.
- Remove the batteries if the unit is not to be used for long periods of time. This will prevent potential damage due to battery leakage.

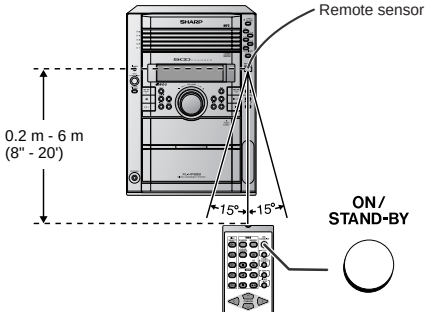
Caution:
- Do not use rechargeable batteries (nickel-cadmium battery, etc.).
- Installing the batteries incorrectly may cause the unit to malfunction.

Notes concerning use:
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic. Purchase 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.

■ Test of the remote control

Check the remote control after checking all the connections (see pages 7 - 10).
Point the remote control directly at the remote sensor on the unit.

The remote control can be used within the range shown below:
Press the ON/STAND-BY button. Does the power turn on? Now, you can enjoy music.



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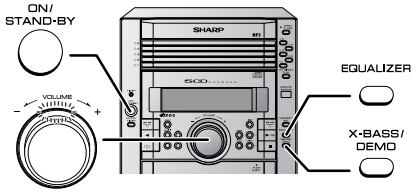
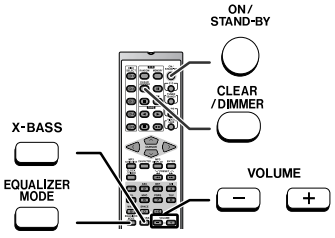
General control





■ To turn the power on

Press the ON/STAND-BY button to turn the power on.

After use:
Press the ON/STAND-BY button to enter the power stand-by mode.

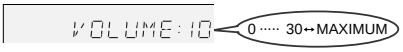
■ Illumination light control

When the power is turned on, light illuminates around the volume control. To turn on/off the light, hold down the CLEAR/DIMMER button on the remote control for 2 seconds or more.

■ Volume control

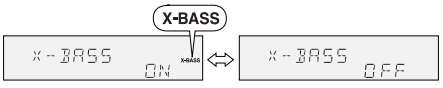
Main unit operation:
When the VOLUME control is turned clockwise, the volume will increase. When it is turned anti-clockwise, the volume will decrease.

Remote control operation:
Press the VOLUME (+ or -) button to increase or decrease the volume.



■ Bass control (X-BASS)

When the power is first turned on, the unit will enter the extra bass mode which emphasises the bass frequencies, and "X-BASS" will appear. To cancel the extra bass mode, press the X-BASS/DEMO (X-BASS) button.



■ Equaliser

When the EQUALIZER (EQUALIZER MODE) button is pressed, the current mode setting will be displayed. To change to a different mode, press the EQUALIZER (EQUALIZER MODE) button repeatedly until the desired sound mode appears.

FLAT	The sound is not modified.
ROCK	Bass and treble are emphasised.
CLASSIC	Treble is cut a little.
POPS	Bass and treble are slightly emphasised.
VOCAL	Vocals (midrange tones) are emphasised.
JAZZ	Treble is slightly emphasised.

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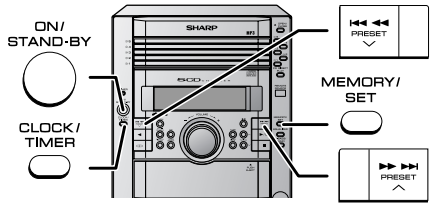
Setting the clock



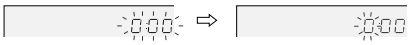
In this example, the clock is set for the 24-hour (0:00) display.

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the CLOCK/TIMER button.**

3 **Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "CLOCK", and press the MEMORY/SET button.**

4 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to select 24-hour or 12-hour display and then press the MEMORY/SET button.**



"0:00" → The 24-hour display will appear. (0:00 - 23:59)

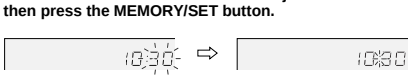
"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)

"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)

5 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the hour and then press the MEMORY/SET button.**

Press the ⏮ ◀◀ or ▶▶ ⏭ button once to advance the time by 1 hour. Hold it down to advance continuously.

6 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the minutes and then press the MEMORY/SET button.**



Press the ⏮ ◀◀ or ▶▶ ⏭ button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.

To confirm the time display:
[When the unit is in the stand-by mode]
Press the CLOCK/TIMER button.
The time display will appear for about 10 seconds.

[When the power is on]
Press the CLOCK/TIMER button.
Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to display the time.
The time display will appear for about 10 seconds.

Note:
The "CLOCK" will appear or time will flash to confirm the time display when the AC power supply is restored after a power failure or unplugging the unit. If incorrect, readjust the clock as follows.

To readjust the clock:
Perform "Setting the clock" from step 1. If the "CLOCK" does not appear in step 3, step 4 (for selecting the 24-hour or 12-hour display) will be skipped.

To change the 24-hour or 12-hour display:
1 Clear all the programmed contents. [Refer to "Clearing all the memory (reset)" on page 43 for details.]
2 Perform "Setting the clock" from step 1.

Note:
The clock can also be set with the remote control.

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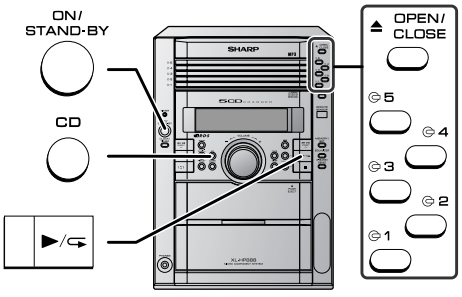
Listening to a CD or MP3 disc

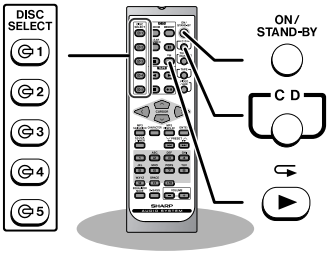
This system can also play audio CD-R and CD-RW discs, but cannot record.
Some audio CD-R and CD-RW discs may not be playable due to the state of the disc or the equipment used for recording.

MP3 is a form of compression. It is an acronym which stands for MPEG Audio Layer 3.
MP3 is a type of audio code which is processed by significant compression from the original audio source with very little loss in sound quality.

Notes:
- "MP3" indicator will light up after the unit reads information on an MP3 disc.
- This system supports MPEG 1 Layer 3, MPEG 2 Layer 3, and VBR files.
- During VBR file playback, time counter in the display may differ from its actual playback time.

Auto power on function:
When you press any of the following buttons, the unit turns on.
- CD button (main unit and remote control): The unit turns on and the "CD" function is activated.
- CD ► / ⮌ button on the remote control: The unit turns on and CD playback starts (regardless of the last function).
- ► / ⮌ button on the main unit: The unit turns on and playback of the last function starts (CD/TAPE/TUNER/VIDEO).





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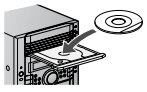
1 **Press the ON/STAND-BY button to turn the power on.**

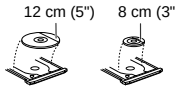
2 **Press the CD button.**

3 **Press the ⓒ 1 button and within 5 seconds, press the ⏏ OPEN/CLOSE button to open the disc tray 1.**

4 **Place the disc on the disc tray 1, label side up.**

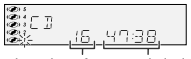
Be sure to place 8 cm (3") disc in the middle of the disc trays.





5 **Press the ⏏ OPEN/CLOSE button to close the disc tray 1.**

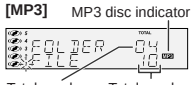
[CD]



Total number of tracks on the disc whose number is flashing

Total playing time of the disc whose number is flashing

[MP3]



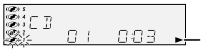
Total number of folders

Total number of files

- Due to the structure of its disc information, it takes longer to read an MP3 disc than a normal CD (approximately 20 to 90 seconds).

6 **You can place discs on the trays 2 - 5 by following steps 3 - 5.**

7 **Press the ► / ⊂ button to start playback.**



- Playback will begin from track 1 on the disc 1. After that disc finishes playing, the next disc will automatically play.
- After the last track on the fifth disc is played, the unit will stop automatically.
- When there is no disc in one of the disc trays (1 - 5), the empty tray will be skipped to the next tray with a disc.

To exchange other discs whilst playing a disc:
Press one of the ⓒ 1 - ⓒ 5 buttons for the stopped disc and within 5 seconds, press the ⏏ OPEN/CLOSE button and exchange discs.

To remove the discs:
In the stop mode, press the ⓒ 1 - ⓒ 5 button and within 5 seconds, press the ⏏ OPEN/CLOSE button.

Caution:
- Do not place two discs in one disc tray.
- Do not play discs with special shapes (heart- or octagon-shaped) as it may cause malfunctions.
- Do not push the disc tray whilst it is moving.
- If the power fails whilst the tray is open, wait until the power is restored.
- If the disc tray is stopped with force, "ER-CD20" will appear on the display for 3 seconds and the unit will not function. If this occurs, press the ON/STAND-BY button to enter the power stand-by mode and then turn the power on again.
- If TV or radio interference occurs during CD operation, move the unit away from the TV or radio.
- If a disc is damaged, dirty, or loaded upside down, the disc will skip or not play.

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Listening to a CD or MP3 disc (continued)

■ Various disc functions

Function	Main unit	Remote control	Operation
Play	►/⊂	⊂ ►	Press in the stop mode.
Stop	■	■	Press in the playback mode.
Pause	—	❚❚	Press in the playback mode. Press the ►/⊂ button to resume playback from the paused point.
Track up/ Track down	⏮ ◀◀ PRESET ▼ / ▶▶ ⏭ PRESET ▲	PRESET ◀◀ ▶▶ ⏮ ⏭	Press in the playback or stop mode. If you press the button in the stop mode, press the ►/⊂ button to start the desired track.
Fast forward/Fast reverse	⏮ ◀◀ PRESET ▼ / ▶▶ ⏭ PRESET ▲	PRESET ◀◀ ▶▶ ⏮ ⏭	Press and hold down in the playback mode. Release the button to resume playback.

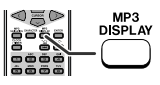
Notes:
- Track up/track down is possible only within individual discs.
- The sound is heard during fast forward/fast reverse with a CD, but not with an MP3 disc. For fast forward or fast reverse of an MP3 disc, refer to playback time on the display.

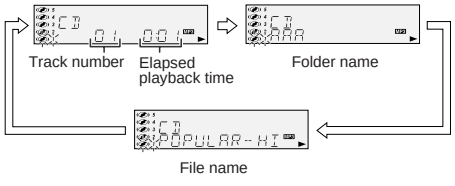
Notes for CD:
- Fast forward/fast reverse is possible only within individual discs.
- When the end of the last track is reached during fast forward, "××END" will appear on the display and CD operation will be paused. When the beginning of the first track is reached during fast reverse, the unit will enter the playback mode.
(××: Last track number)

Notes for MP3 discs:
- Fast forward/fast reverse is possible only within individual tracks.
- When the end of the track is reached during fast forward, the next track will be played. Playback of the track will begin when its beginning is reached during fast reverse.

■ To change the display (MP3 discs only)

Whilst a disc is playing, press the MP3 DISPLAY button.
Each time the button is pressed, the display will change as follows.





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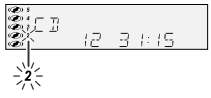
Advanced CD or MP3 disc playback

■ To specify a disc to play

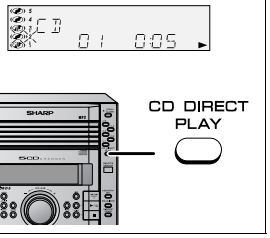
You can play a disc by specifying the disc number.

1 Press one of the ⊖1 - ⊖5 buttons to select the desired disc.



Selected disc number

2 Within 5 seconds, press the CD DIRECT PLAY button on the main unit.



- Playback will begin from track 1 on the chosen disc.
- After the last track on the chosen disc is played, the unit stops automatically.

Note:
If a disc tray with no disc is selected, playback will not start and the disc indicator will go out.

To stop playback:
Press the ■ (CD ■) button.

■ Direct track search

By using the direct search buttons, the desired tracks on the current disc can be played.

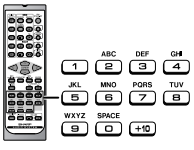
Use the direct search buttons on the remote control to select the desired track whilst playing the selected disc.

Selected track number

- The direct search buttons allow you to select up to number 9.
- When selecting number 10 or higher, use the "+10" button.

A. For example, to choose 13

1 Press the "+10" button once.
2 Press the "3" button.



B. For example, to choose 30

1 Press the "+10" button three times.
2 Press the "0" button.

If the direct search buttons are pressed whilst the disc is stopped, press the ► / ⊂ button to start the desired track on the current disc.

Notes:
- A track number higher than the number of tracks on the disc cannot be selected.
- During random play, direct search is not possible.

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Advanced CD or MP3 disc playback (continued)

■ Repeat play

Repeat play can play all 5 discs, all tracks on a chosen disc, or a programmed sequence continuously.

To repeat all tracks on up to 5 discs:

Press the ► / ⮌ button twice.

To repeat desired tracks:

Perform steps 1 - 6 in "Programmed play" section on page 20 and then press the ► / ⮌ button twice.

To cancel repeat play:
Press the ► / ⮌ button again.
"⮌" will go out.

To repeat all tracks on the chosen disc:

1 Press one of the ⏲1 - ⏲5 buttons.
2 Within 5 seconds, press the CD DIRECT PLAY button twice.

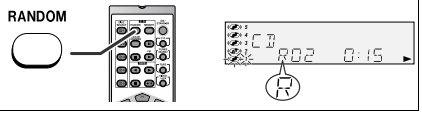
To cancel repeat play:
Press the CD DIRECT PLAY button again.
"⮌" will go out.

■ Random play

The tracks on the disc(s) can be played in random order automatically.

To random play all tracks on up to 5 discs:

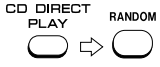
Press the RANDOM button on the remote control.



To cancel random play:
Press the ► / ⮌ button.
"R" will go out.

To random play all tracks on the chosen disc:

1 Press one of the ⏲1 - ⏲5 buttons.
2 Within 5 seconds, press the CD DIRECT PLAY button.
3 Press the RANDOM button on the remote control.



To cancel random play:
Press the CD DIRECT PLAY button.
"R" will go out.

Notes:

- If you press the ►►I button during random play, you can move to the next track by the random operation. On the other hand, the I◄◄ button does not allow you to move to the previous track. The beginning of the track being played will be located.
- In random play, the unit will select and play tracks automatically. (You cannot select the order of the tracks.)

Caution:
After performing repeat or random play, be sure to press the ■ (CD ■) button. Otherwise, the disc(s) will play continuously.

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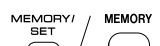
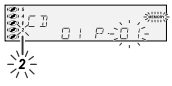
■ Programmed play

You can choose up to 32 selections for playback in the order you like.

1 **Whilst in the stop mode, press the MEMORY/SET (MEMORY) button to enter the programming save mode.**

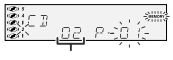


2 **Press one of the ⊖1 - ⊖5 buttons to select the desired disc.**



Selected disc number

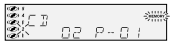
3 **Press the direct search buttons on the remote control to select the desired track.**



Selected track number

You can also select a track by pressing the I◄◄ or ►►I button.

4 **Press the MEMORY/SET (MEMORY) button to save the track number.**



5 **Repeat steps 2 - 4 for other tracks. Up to 32 tracks can be programmed.**

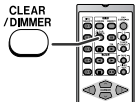
If you make a mistake, the programmed tracks can be cleared by pressing the CLEAR/DIMMER button.

6 **Press the ■ (CD ■) button.**

The total number of memory will appear.

7 **Press the ► / ⊂ button to start playback.**

To clear the programmed selections:
Press the CLEAR/DIMMER button on the remote control whilst the "MEMORY" indicator is flashing.
Each time the button is pressed, one track will be cleared, beginning with the last track programmed.



To cancel the programmed play mode:
Whilst in the stop mode and the "MEMORY" indicator is lit, press the CLEAR/DIMMER button on the remote control. The "MEMORY" indicator will disappear and all the programmed contents will be cleared.

Adding tracks to the programme:
If a programme has been previously stored, the "MEMORY" indicator will be displayed. Then follow steps 1 - 6 to add tracks. The new tracks will be stored after the last track of the original programme.

To check which tracks are programmed:
Whilst the unit is stopped in the programmed play mode, press the I◄◄ or ►►I button.

Notes:

- When a disc with programmed tracks is ejected, the programme is automatically cancelled.
- Even if you press the ON/STAND-BY button to enter the stand-by mode or change the function from CD to another, the programmed selections will not be cleared.
- During the programme operation, random play is not possible.
- During programmed play, the CD DIRECT PLAY button will not work.

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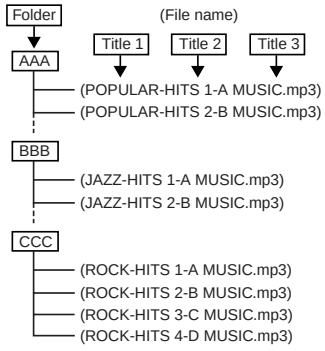
MP3 navigation (only for MP3 files)

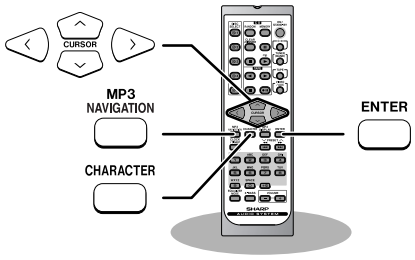
MP3 navigation:
You can search and play files by folder or title. For example, when you assign three titles to a file, enter genre (such as jazz) as title 1, album name as title 2, and music title as title 3 to search the file by any title.

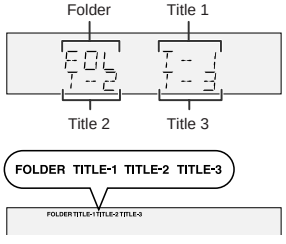
- You can search and play files by folder or title 1/2/3 within one MP3 disc (see page 22).
- By entering a name, you can search files by folder or title 1/2/3 within one MP3 disc (see page 23).
- Folders or titles can be programmed within one MP3 disc (see page 24).

When you enter file names on your PC, connect words with hyphens. This product recognises the first word as title 1, second one as title 2, and third one as title 3. Up to three words can be recognised.

Example:







Notes:

- MP3 files must have the extension ".mp3".
- Up to 100 folders or 300 files can be read on the unit. If either limit is exceeded, no more folders/files are displayed.
- This unit recognises and displays up to 48 characters for folder names, and up to 32 characters for title 1/2/3.
- All file/folder names appear in uppercase.

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■ File search (by folder or title 1/2/3)

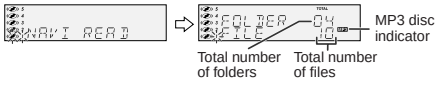
You can search and play files by folder or title 1/2/3 within one MP3 disc.

1 **Press one of the ⏀1 - ⏀5 buttons to select a disc tray containing an MP3 disc.**

2 **Press the ►⊂ button, and the unit starts to read the MP3 disc.**

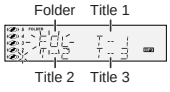
3 **Press the CD ■ button to stop playback.**

"NAVI READ" appears and the display shows the total number of folders and files on the selected disc.



4 **Press the MP3 NAVIGATION button.**

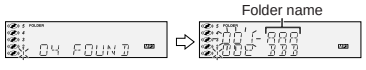
5 **Press the <, >, ∧ or ∨ button to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).**



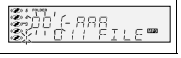
The following steps describe file search by folder:

6 **Press the ENTER button.**

The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.



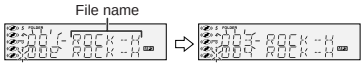
- The MP3 NAVIGATION button allows you to go one step back.
- Press the MP3 DISPLAY button to check the number of files.



7 **Use the ∧ or ∨ button to scroll and select a folder (or title), and then press the ENTER button.**

If you press the ►⊂ button instead of the ENTER button, all files in the selected folder (or title) are played.

8 **Use the ∧ or ∨ button to scroll and select a file.**



9 **Press the ►⊂ button to start playback.**

The unit plays from the selected file to the last file in the selected folder (or title), and the previous display returns.

File search by title 1/2/3:

- In step 5, select "T-1", "T-2" or "T-3" and follow the same steps as file search by folder.
- The unit searches all files on the disc, regardless of the folder.

To stop playback:
Press the CD ■ button.

To exit the MP3 navigation mode:
In the stop mode, press the CD ■ button.

Notes:

- In the MP3 navigation mode, direct play and direct search functions are disabled.
- If a folder, title or file name does not appear, or appears incorrectly, remove and reinsert the disc and try again.
- If you press the RANDOM button in the stop mode, the MP3 navigation mode will be cancelled.

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MP3 navigation (only for MP3 files) (continued)

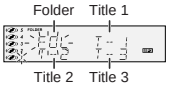
■ Character search (for folder or title 1/2/3)

By entering a name, you can search files by folder or title 1/2/3 within one MP3 disc.

1 **Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 22.**

2 **Press the MP3 NAVIGATION button.**

3 **Press the <, >, ∧ or ∨ button to select "FOL", "T-1", "T-2" or "T-3". To search files by folder name, select "FOL" (will flash).**



4 **Press the CHARACTER button for 2 seconds.**

The display will be ready for editing characters.

1st row: String table

2nd row: Input editor (8 digits)

5 **Press the < or > button to select the desired alphabet.**

Press the ⏮ or ⏭ button to go to the next page of character display.

6 **Press the CHARACTER button and the active character will be entered in the 2nd row of the display.**

To delete an entered character, move the cursor to the character with the ∧ or ∨ button and press the CLEAR/DIMMER button on the remote control.

7 **Repeat steps 5 and 6 to enter characters.**

In the folder (or title) name search, you do not have to enter the full name. The unit searches for names beginning with the entered characters.

8 **When finished, press the ENTER button. The unit searches for the same name within folders (or titles).**

If the search word is not in the folder (or title) name, "NOT FOUND" appears and the menu returns.

9 **Use the ∧ or ∨ button to scroll and select a folder (or title).**

10 **Press the ► or ⏯ button to start playback.**

All files in the selected folder (or title) are played, and the previous display returns.

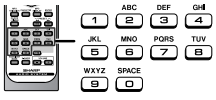
To exit the MP3 navigation mode:
In the stop mode, press the CD ■ button.

Notes:

- The unit searches regardless of the case, and found names appear in uppercase.
- Some symbols do not appear properly.

Character entry with direct buttons:

The direct buttons on the remote control can also be used for character entry.
In step 5 on the left, use buttons 0 - 9 to enter alphabets.
Alphabet types change as you press a button.



For example, press "2" four times to enter "C".

2 ⟶ A ⟶ B ⟶ C

Characters:

1	ABC 2	DEF 3	GHI 4	JKL 5	MNO 6	PQRS 7	TUV 8	WXYZ 9	SPACE 0
1	2 ABC	3 DEF	4 GHI	5 JKL	6 MNO	7 PQRS	8 TUV	9 WXYZ	0 ⬚

⬚ : indicates a space.

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■ Programmed play (for folder, title 1/2/3)

Folders or titles can be programmed within one MP3 disc.
Folder, title 1, title 2 and title 3 cannot be programmed together simultaneously.

1 **Perform steps 1 - 3 in "File search (by folder or title 1/2/3)" on page 22.**

2 **Press the MP3 NAVIGATION button.**

3 **Press the <, >, ∧ or ∨ button to select "FOL", "T-1", "T-2" or "T-3" and then press the ENTER button.**

The total number of folders (or titles) appears for 2 seconds, and names of the first 2 folders (or titles) are displayed.

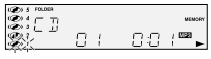
4 **Press the ∧ or ∨ button to select the desired folder (or title) and then press the MEMORY button.**

The folder (or title) is memorised with all the files.

5 **Repeat step 4 for other folders (or titles).**

Up to 10 folders (or 10 titles) can be programmed.

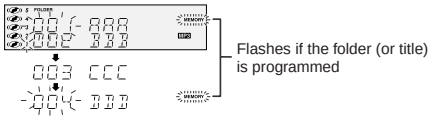
6 **Press the ► ⊂ button to start playback.**



Programmed play will always start from the smallest folder (or title) number.

To stop playback:
Press the CD ■ button.
- The programmed contents are not cleared.

To check, add or delete programmed contents:
In the stop mode, select a folder (or title) with the ∧ or ∨ button. If the folder (or title) is programmed, "MEMORY" flashes.



- When you press the MEMORY button with "MEMORY" flashing, the folder (or title) is removed from the programme.
- If you press the MEMORY button with "MEMORY" off, the folder (or title) is added to the programme.
- To clear all programmes, press the CLEAR/DIMMER button in the stop mode.

To exit the MP3 navigation mode:
In the stop mode, press the CD ■ button.
- The programmed contents are cleared.

Notes:
- The programmed contents are cleared when you eject a disc, play another disc, switch the function, or enter the stand-by mode with the ON/STAND-BY button.
- During programmed play, the CD DIRECT PLAY button on the main unit will not work.
- If you press the RANDOM button in the stop mode, the MP3 navigation mode will be cancelled.

If tracks are programmed using track numbers (see "Programmed play" on page 20):
In the MP3 navigation mode, only programmes by folder (or title) name are played. When you exit the mode, the programmes by folder (or title) name are cleared.
Even when you exit the MP3 navigation mode, programmes by track number are retained, and you can play tracks according to the numbers.
(Programmes by track number are cleared when you remove the disc.)

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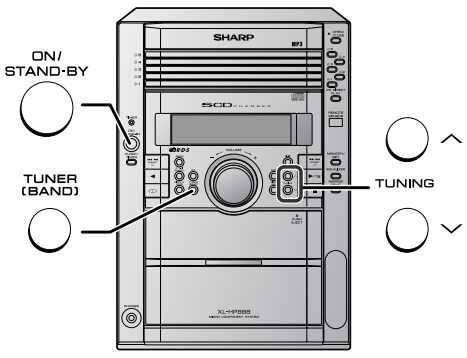
Listening to the radio



Auto power on function:
When you press any of the following buttons, the unit turns on.
- TUNER (BAND) button (main unit and remote control): The unit turns on and the "TUNER" function is activated.
- ► / ⇨ button on the main unit: The unit turns on and playback of the last function starts (CD/TAPE/TUNER/VIDEO).

■ Tuning

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TUNER (BAND) button repeatedly to select the desired frequency band (FM or AM).**

3 **Press the TUNING (∨ or ∧) button to tune in to the desired station.**

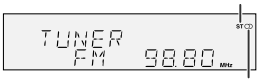
Manual tuning:
Press the TUNING button as many times as required to tune in to the desired station.

Auto tuning:
When the TUNING button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.

Notes:
- When radio interference occurs, auto scan tuning may stop automatically at that point.
- Auto scan tuning will skip weak signal stations.
- To stop the auto tuning, press the TUNING button again.
- When an RDS (Radio Data System) station is tuned in, the frequency will be displayed first, and then the RDS indicator will light. Finally, the station name will appear.
- Full auto tuning can be achieved for RDS stations "ASPM", see page 32.

To receive an FM stereo transmission:
Press the TUNER (BAND) button to display the "ST" indicator.
- "⊂⊃" will appear when an FM broadcast is in stereo.
- If the FM reception is weak, press the TUNER (BAND) button to extinguish the "ST" indicator. The reception changes to monaural, and the sound becomes clearer.

FM stereo mode indicator



FM stereo receiving indicator

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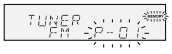
■ Memorising a station

You can store 40 AM and FM stations in memory and recall them at the push of a button. (Preset tuning)

1 **Perform steps 1 - 3 in "Tuning" on page 25.**

2 **Press the MEMORY/SET (MEMORY) button to enter the preset tuning saving mode.**



3 **Within 30 seconds, press the PRESET (∨ or ∧) button to select the preset channel number.**

Store the stations in memory, in order, starting with preset channel 1.

4 **Within 30 seconds, press the MEMORY/SET (MEMORY) button to store that station in memory.**

If the "MEMORY" and preset number indicators go out before the station is memorised, repeat the operation from step 2.

5 **Repeat steps 1 - 4 to set other stations, or to change a preset station.**

When a new station is stored in memory, the station previously memorised will be erased.

Note:
The backup function protects the memorised stations for a few hours should there be a power failure or the AC power lead disconnection.

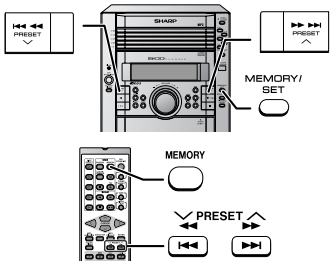
■ To recall a memorised station

Press the PRESET (∨ or ∧) button for less than 0.5 seconds to select the desired station.

■ To scan the preset stations

The stations saved in memory can be scanned automatically. (Preset memory scan)

1 Press the PRESET (∨ or ∧) button for more than 0.5 seconds. The preset number will flash and the programmed stations will be tuned in sequentially, for 5 seconds each.
2 Press the PRESET (∨ or ∧) button again when the desired station is located.



■ To erase entire preset memory

1 Press the ON/STAND-BY button to enter the stand-by mode.
2 Whilst pressing down the ●II button and the X-BASS/DEMO button, press the CLOCK/TIMER button until "TUNER CL" appears.

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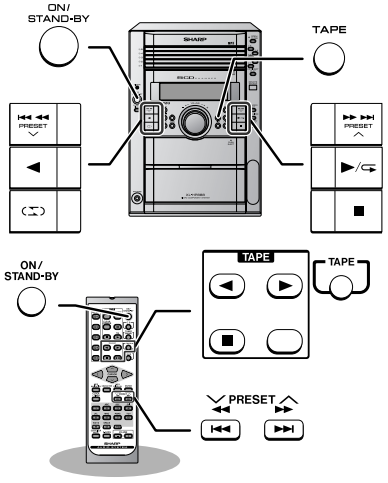
Listening to a cassette tape

Before playback:

- **For playback, use normal or low-noise tapes for the best sound. (Metal or CrO_2 tapes are not recommended.)**
- Do not use C-120 tapes or poor-quality tapes, as they may cause malfunctions.
- Before loading a tape into the cassette compartment, tighten the slack with a pen or a pencil.

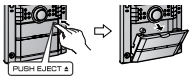


■ Tape playback

1 **Press the ON/STAND-BY button to turn the power on.**

2 **Press the TAPE button.**

3 **Open the cassette door by pushing the area marked "⏏ PUSH EJECT".**



4 **Load a cassette into the cassette compartment with side A facing you.**

5 **Press the ⊂⊃ button to choose one side or both sides.**

⊂⊃ ... To listen to both sides.

To play both sides (⊂⊃), start from side A. When playback starts from side B, side A will not be played.

⊂⊃ ... For endless repeat play of both sides.

⊐ ... To listen to one side.

6 **Press the ► / ⊂ (►) button to listen to side A, or the ◄ (◄) button for side B.**

Forward play —

Reverse play —

Auto power on function:

When you press any of the following buttons, the unit turns on.

- TAPE button (main unit and remote control): The unit turns on and the "TAPE" function is activated.
- TAPE ► button on the remote control: The unit turns on and side A playback starts (regardless of the last function).
- ► / ⊂ button on the main unit: The unit turns on and playback of the last function starts (CD/TAPE/TUNER/VIDEO).

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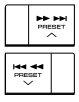
■ Various tape functions

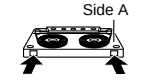
Function	Main unit	Remote control	Operation
Side A playback			Press in the stop mode.
Side B playback			Press in the stop mode.
Stop			Press in the playback, fast forward or fast rewind mode.
Fast forward/Fast rewind			Press in the playback or stop mode.

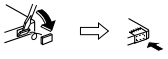
Caution:
- To remove the cassette, press the ■ (TAPE ■) button, and then open the compartment.
- If a power failure occurs during tape operation, the tape head will remain engaged with the tape and the cassette door will not open. In this case, wait until the power is restored.

Recording on a cassette tape

Before recording:
- When recording important selections, make a preliminary test to ensure that the desired material is properly recorded.
- SHARP is not liable for damage or loss of your recording arising from malfunction of this unit.
- The volume and sound controls can be adjusted with no effect on the recorded signal (Variable Sound Monitor).
- **For recording, use only normal tapes. Do not use metal or CrO_2 tapes.**

Erase-prevention tab of cassette tapes:
- When recording on a cassette tape, make sure that the erase-prevention tabs are not removed. Cassettes have removable tabs that prevent accidental recording or erasing.
- To protect the recorded sound, remove the tab after recording. Cover the tab hole with adhesive tape to record on the tape without the tab.





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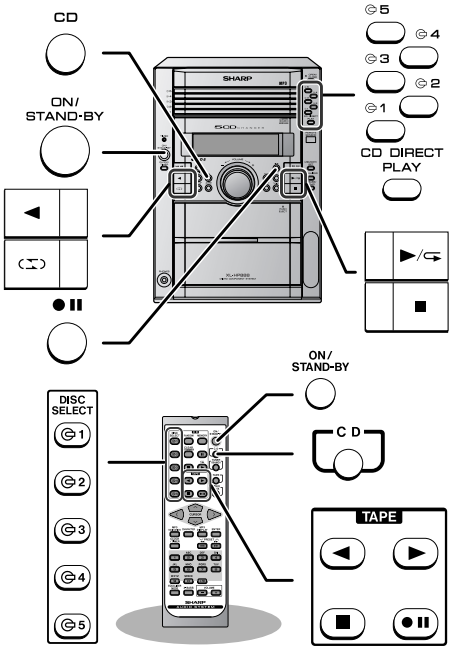
Recording on a cassette tape (continued)



■ Recording from a CD or MP3 disc

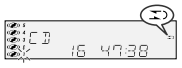
You can record the desired disc using the CD DIRECT PLAY button.

1 **Press the ON/STAND-BY button to turn the power on.**

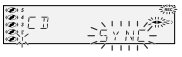
2 **Press the CD button.**

3 **Load a cassette into the cassette compartment with side A facing you.**
Wind past the leader of the tape, on which recording cannot be performed.

4 **Press the ⊃ button to choose one side or both sides.**
⊃ ... To record on both sides.
⊃ ... To record on only one side.



5 **Press the ●II button.**
Recording will be paused.



6 **Press one of the 1 - 5 buttons to select the desired disc.**

7 **Within 5 seconds, press the CD DIRECT PLAY button to start recording.**
- Recording starts from side A.
- Recording is started from the selected disc. When the playback of the last track is finished or the end of the tape is reached, the disc and the cassette will stop automatically.
- Playback of the disc will start approximately 7 seconds after the tape starts.

To stop recording:
Press the ■ (TAPE ■) button.
The disc and tape will stop.

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Sequential recording from several discs:

1 Perform steps 1 - 6 in "Recording from a CD or MP3 disc" on page 29.
2 Within 5 seconds, press the ► / ⊂ (►) button to record on side A, or the ◄ (◄) button for side B.

To perform programmed recording:

1 Programme discs and tracks (see pages 20, 24).
2 Press the ●II button.
3 Press the ► / ⊂ (►) button to record on side A, or the ◄ (◄) button for side B.

To stop recording:
Press the ■ (TAPE ■) button.
The disc and tape will stop.

Note:
To record on both sides, begin with side A. (If recording is started from side B, the tape will not switch over to side A.)

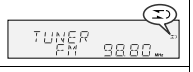
Auto restart function:
If the recording side is switched from side A to B during recording, the system will record the interrupted track on side B from its beginning. The recording will be made without cutting the beginning of the track on side B.

■ Recording from the radio

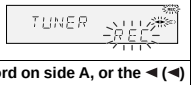
1 Tune in to the desired station (see page 25).

2 Load a cassette into the cassette compartment with side A facing you.
Wind past the leader of the tape, on which recording cannot be performed.

3 Press the ⊂⊃ button to choose one side or both sides.
⊂⊃ ... To record on both sides.
⊂ ... To record on only one side.



4 Press the ●II button.
Recording will be paused.



5 Press the ► / ⊂ (►) button to record on side A, or the ◄ (◄) button for side B.
To record on both sides, begin with side A. (If recording is started from side B, the tape will not switch over to side A.)

To interrupt recording:
Press the ●II button.
To resume recording, press the same recording button you pressed in step 5. Other buttons do not allow resuming.

To stop recording:
Press the ■ (TAPE ■) button.

Note:
If you hear a whistling noise whilst recording an AM station, move the AM loop aerial.

■ Erasing recorded tapes

1 Press the TAPE button.
2 Follow steps 2 - 5 in "Recording from the radio".

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Using the Radio Data System (RDS)

RDS is a broadcasting service which a growing number of FM stations provide. These FM stations send additional signals along with their regular programme signals. They send their station names, and information about the type of programme such as sport, music, etc.

When tuned to an RDS station, "RDS" and the station name will be displayed.

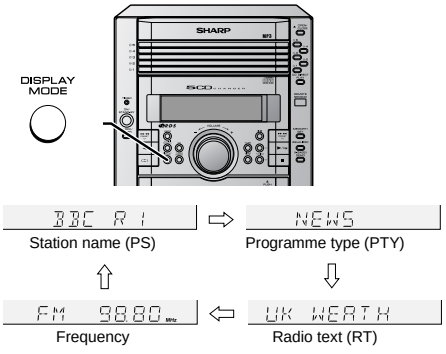
"TP" (Traffic Programme) will appear on the display when the received broadcast carries traffic information, and "TA" (Traffic Announcement) will appear whilst a traffic information is on air.

"PTYI" (Dynamic PTY Indicator) will appear whilst the Dynamic PTY station is received.

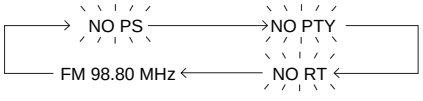
You can control the RDS by using the buttons on the main unit only.

■ Information provided by RDS

Each time the DISPLAY MODE button is pressed, the display will switch as follows:



When you are tuning in to a station other than an RDS station or to an RDS station which sends weak signal, the display will change in the following order:



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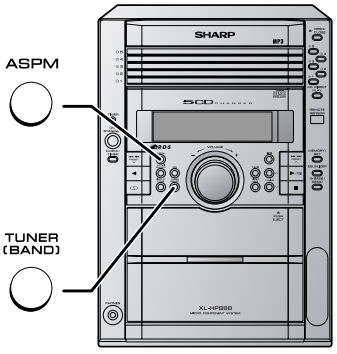


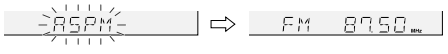
■ Using the Auto Station Programme Memory (ASPM)

Whilst in the ASPM operation mode, the tuner will automatically search for new RDS stations. Up to 40 stations can be stored.
If you have already stored some stations in memory, the number of new stations you can store will be less.

1 Press the TUNER (BAND) button to select the FM band.

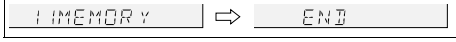
2 Press and hold down the ASPM button for at least 3 seconds.

1 After "ASPM" has flashed for about 4 seconds, scanning will start (87.50 - 108.00 MHz).



2 When an RDS station is found, "RDS" will appear for a short time and the station will be stored in memory.

3 After scanning, the number of stations stored in memory will be displayed for 4 seconds, and then "END" will appear for 4 seconds.



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Using the Radio Data System (RDS) (continued)

To stop the ASPM operation before it is complete:
Press the ASPM button whilst it is scanning for stations.
The stations which are already stored in memory will be kept there.

Notes:
- If the same station is broadcasting on different frequencies, the strongest frequency will be stored in memory.
- Any station which has the same frequency as one stored in memory will not be stored.
- If 40 stations have already been stored in memory, the scan will be aborted. If you want to redo the ASPM operation, erase the preset memory.
- If no stations have been stored in memory, "END" will appear for about 4 seconds.
- If the RDS signals are very weak, station names may not be stored in memory.

To erase all of the contents of preset memory:

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the ●II button and the X-BASS/DEMO button, press the CLOCK/TIMER button until "TUNER CL" appears.
- After performing this operation, all of the preset memory information will be erased.

To store a station name again if the wrong name was stored in memory:
It may be impossible to store station names in memory using the ASPM function if there is lots of noise or if the signal is too weak. In this case, perform as follows.

1 Press the PRESET (∨ or ∧) button to check whether the names are correct.
2 If you find a wrong name during receiving the station, wait until the correct name will be displayed. And then press the MEMORY/SET button.
3 Within 30 seconds, press the MEMORY/SET button whilst the preset channel number is flashing.
- The new station name has been stored in memory correctly.

Notes:
- The same station name can be stored in different channels.
- In a certain area or during certain time periods, the station names may temporarily be different.

■ Notes for RDS operation

If any of the following events occur, it does not mean that the unit is faulty:
- "PS", "NO PS" and a station name appear alternately, and the unit does not operate properly.
- If a particular station is not broadcasting properly or a station is conducting tests, the RDS reception function may not work properly.
- When you receive an RDS station whose signal is too weak, information like the station name may not be displayed.
- "NO PS", "NO PTY" or "NO RT" will flash for about 5 seconds, and then the frequency will be displayed.

Notes for radio text:
- The first 10 characters of the radio text will appear for 4 seconds and then they will scroll across the display.
- If you tune in to an RDS station which is not broadcasting any radio text, "NO RT" will be displayed when you switch to the radio text position.
- Whilst radio text data is received or when the text contents change, "RT" will be displayed.

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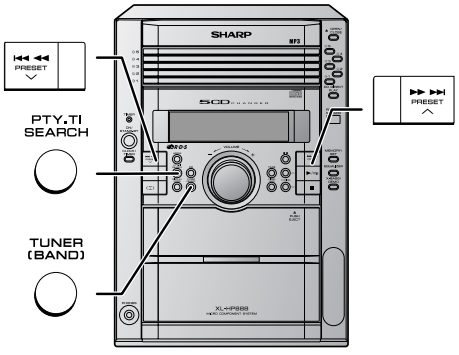

■ To recall stations in memory

To specify programmed types and select stations (PTY search):

You can search a station by specifying the programme type (news, sports, traffic programme, etc. ... see pages 35 - 36) from the stations in memory.

1 **Press the TUNER (BAND) button to select the FM.**

2 **Press the PTY.TI SEARCH button.**

SELECT ⇔ PTY TI

"SELECT" and "PTY TI" will appear alternately for about 6 seconds.

3 **Within 6 seconds, press the PRESET (∨ or ∧) button to select the programme type.**

NEWS

Each time the button is pressed, the programme type will appear. If the button is held down for more than 0.5 seconds, the programme type will appear continuously.

4 **Whilst the selected programme type is flashing (within 6 seconds), press the PTY.TI SEARCH button again.**

NEWS ⇨ SEARCH

After the selected programme type has been lit for 2 seconds, "SEARCH" will appear, and the search operation will start.

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Using the Radio Data System (RDS) (continued)

Notes:
- If the display has stopped flashing, start again from step 2. If the unit finds a desired programme type, the corresponding channel number will flash for about 4 seconds, and then the station name will flash for 7 seconds, which will remain lit.
- If you want to listen to the same programme type of another station, press the PTY.TI SEARCH button whilst the channel number or station name is flashing. The unit will look for the next station.
- If no station can be found, "NOT FOUND" will appear for 4 seconds.

If you select the traffic programme:
If you select the traffic programme (TP) in step 4, "TP" will appear. (This does not mean that you can listen to the traffic information at that time.)
When the traffic information is broadcast, "TA" will appear.

To specify station names and select stations manually:
You can select a station by specifying the name (BBC R1, BBC R2, etc.) from the stations stored in memory.
Before starting this operation, you must store one or more station names in memory.

1 Press the TUNER (BAND) button to select the FM band.
2 Press the PRESET (∨ or ∧) button to select a desired station.
3 The station name will be displayed for 6 seconds. Then the display will change.

Descriptions of the PTY (Programme Type) codes, TP (Traffic Programme) and TA (Traffic Announcement).
You can search for and receive the following PTY, TP and TA signals.

NEWS	Short accounts of facts, events and publicly expressed views, reportage and actuality.
AFFAIRS	Topical programme expanding or enlarging upon the news, generally in different presentation style or concept, including debate, or analysis.
INFO	Programmes whose purpose is to impart advice in the widest sense.
SPORT	Programme concerned with any aspect of sport.
EDUCATE	Programme intended primarily to educate, of which the formal element is fundamental.
DRAMA	All radio plays and serials.
CULTURE	Programmes concerned with any aspect of national or regional culture, including language, theatre, etc.
SCIENCE	Programmes about the natural sciences and technology.
VARIED	Used for mainly speech-based programmes usually of light-entertainment nature, not covered by other categories. Examples include: quizzes, panel games, personality interviews.
POP M	Commercial music, which would generally be considered to be of current popular appeal, often featuring in current or recent record sales charts.
ROCK M	Contemporary modern music, usually written and performed by young musicians.
EASY M	Current contemporary music considered to be "easy-listening", as opposed to Pop, Rock or Classical, or one of the specialised music styles, Jazz, Folk or Country. Music in this category is often but not always, vocal, and usually of short duration.

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LIGHT M	Classical music for general, rather than specialist appreciation. Examples of music in this category are instrumental music, and vocal or choral works.
CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc., and including Grand Opera.
OTHER M	Musical styles not fitting into any of the other categories. Particularly used for specialist music of which Rhythm & Blues and Reggae are examples.
WEATHER	Weather reports and forecasts and meteorological information.
FINANCE	Stock Market reports, commerce, trading, etc.
CHILDREN	For programmes targeted at a young audience, primarily for entertainment and interest, rather than where the objective is to educate.
SOCIAL	Programmes about people and things that influence them individually or in groups. Includes: sociology, history, geography, psychology and society.
RELIGION	Any aspect of beliefs and faiths, involving a God or Gods, the nature of existence and ethics.
PHONE IN	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL	Features and programmes concerned with travel to near and far destinations, package tours and travel ideas and opportunities. Not for use for announcements about problems, delays, or roadworks affecting immediate travel where TP/TA should be used.
LEISURE	Programmes concerned with recreational activities in which the listener might participate. Examples include, Gardening, Fishing, Antique collecting, Cooking, Food & Wine, etc.
JAZZ	Polyphonic, syncopated music characterised by improvisation.
COUNTRY	Songs which originate from, or continue the musical tradition of the American Southern States. Characterised by a straightforward melody and narrative story line.
NATION M	Current Popular Music of the Nation or Region in that country's language, as opposed to International 'Pop' which is usually US or UK inspired and in English.
OLDIES	Music from the so-called "golden age" of popular music.
FOLK M	Music which has its roots in the musical culture of a particular nation, usually played on acoustic instruments. The narrative or story may be based on historical events or people.
DOCUMENT	Programme concerned with factual matters, presented in an investigative style.
TEST	Broadcast when testing emergency broadcast equipment or receivers.
ALARM !	Emergency announcement made under exceptional circumstances to give warning of events causing danger of a general nature.
NONE	No programme type (receive only).
TP	Broadcasts which carry traffic announcements.
TA	Traffic announcements are being broadcast.

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Timer and sleep operation

Timer playback:
The unit turns on and plays the desired source (CD, MP3 disc, tuner, tape) at a preset time.

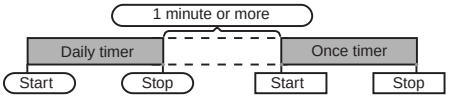
Timer recording:
The unit turns on and starts recording from the tuner at the preset time.

This unit has 2 types of timer: ONCE TIMER and DAILY TIMER.

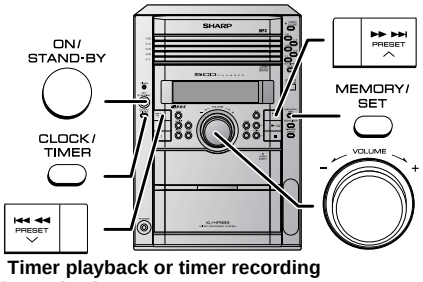
Once timer: Once timer play or once timer recording works for one time only at a preset time.
For example, if you are away but want to record a programme on a radio station.

Daily timer: Daily timer play or daily timer recording works at the same preset time every day.
For example, set the timer as a wake-up call every morning.

Using the once timer and daily timer in combination:
For example, use the once timer to record a radio programme, and use the daily timer to wake up.
1 Set the daily timer (pages 37 - 39).
2 Set the once timer (pages 37 - 39).



Note:
When set times for the daily timer and once timer overlap, the once timer takes priority. Allow an interval of at least 1 minute between operations.



■ Timer playback or timer recording

Before setting timer:

1 Check that the clock is set to the correct time (refer to page 14).
If it is not set, you cannot use the timer function.
2 For timer playback: Load a cassette or discs to be played.
For timer recording: Load a cassette for recording in the cassette compartment.

⇩

1 Press the ON/STAND-BY button to turn the power on.

2 Press the CLOCK/TIMER button.

3 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE" or "DAILY", and press the MEMORY/SET button.

Set the clock to the correct time if "ONCE" or "DAILY" does not appear.

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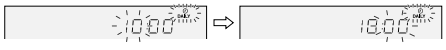
4 **Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE SET" or "DAILY SET", and press the MEMORY/SET button.**

5 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to select "PLAY" or "REC", and press the MEMORY/SET button.**

The illustrations show the daily timer setting.

6 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the hour and then press the MEMORY/SET button.**



The illustrations show the timer playback setting in the daily timer mode.

7 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to adjust the minutes and then press the MEMORY/SET button.**

8 **Set the time to finish as in steps 6 and 7 above.**

9 **Switch input with the ⏮ ◀◀ or ▶▶ ⏭ button, and then press the MEMORY/SET button.**

To select the timer playback source: CD, TUNER or TAPE.

To select the timer recording source: TUNER.

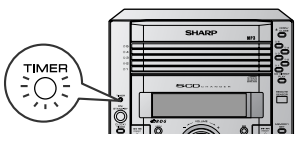
- When you select the tuner, select a station by pressing the ⏮ ◀◀ or ▶▶ ⏭ button, and then press the MEMORY/SET button.
- If a station has not been programmed, "NO PRESET" will be displayed and timer setting will be cancelled.

10 **Adjust the volume using the VOLUME control, and then press the MEMORY/SET button.**

Do not turn the volume up too high.

11 **Press the ON/STAND-BY button to enter the power stand-by mode.**

The "TIMER" indicator lights up and the unit is ready for timer playback or timer recording.



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Timer and sleep operation (continued)

12 When the preset time is reached, playback or recording will start.

The volume will increase gradually until it reaches the preset volume.

13 When the timer end time is reached, the system will enter the power stand-by mode automatically.

Once timer:

The timer will be cancelled.

Daily timer:

The timer will operate at the same time every day. It will continue until the daily timer setting is cancelled. Cancel the daily timer when it is not in use.

Note:

When performing timer playback or recording using another unit connected to the VIDEO/AUX IN sockets, select "VIDEO" in step 9. This unit will turn on or enter the power stand-by mode automatically, however, the connected unit will not turn on or off.

Checking the timer setting in the timer stand-by mode:

1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE" or "DAILY", and press the MEMORY/SET button.
3 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE CALL" or "DAILY CALL", and press the MEMORY/SET button.
The unit returns to the timer stand-by mode after displaying the settings in order.

Cancelling the timer setting in the timer stand-by mode:

1 Press the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE" or "DAILY", and press the MEMORY/SET button.
3 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE OFF" or "DAILY OFF", and press the MEMORY/SET button.
Timer will be cancelled (the setting will not be cancelled).

Reusing the memorised timer setting:

The timer setting will be memorised once it is entered. To reuse the same setting, perform the following operations.

1 Turn the power on and press the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE" or "DAILY", and press the MEMORY/SET button.
3 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "ONCE ON" or "DAILY ON", and press the MEMORY/SET button.
4 Press the ON/STAND-BY button to enter the power stand-by mode.

Note:

The timer can also be set with the remote control.

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■ Sleep operation

The radio, CD, MP3 disc and cassette tape can all be turned off automatically.

1 **Play back the desired sound source.**

2 **Press the CLOCK/TIMER button.**

3 **Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "SLEEP", and press the MEMORY/SET button.**

4 **Press the ⏮ ◀◀ or ▶▶ ⏭ button to select the time.**

(Maximum: 3 hours - Minimum: 1 minute)

- 3 hours - 5 minutes → 5-minute intervals
- 5 minutes - 1 minute → 1-minute intervals

5 **Press the MEMORY/SET button.**

"SLEEP" will appear.

6 **The unit will enter the power stand-by mode automatically after the preset time has elapsed.**

The volume will be turned down 1 minute before the sleep operation finishes.

To confirm the remaining sleep time:

1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "SLEEP X : XX".
"X : XX" is remaining sleep time.

- The remaining sleep time is displayed for about 10 seconds.
- You can change the remaining sleep time whilst it is displayed by pressing the MEMORY/SET button.

To cancel the sleep operation:

Press the ON/STAND-BY button whilst "SLEEP" is indicated.
To cancel the sleep operation without setting the system to the stand-by mode, proceed as follows.

1 Whilst "SLEEP" is indicated, press the CLOCK/TIMER button.
2 Within 10 seconds, press the ⏮ ◀◀ or ▶▶ ⏭ button to select "SLEEP OFF", and press the MEMORY/SET button.

■ To use timer and sleep operation together

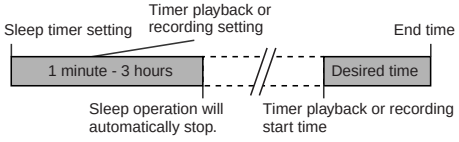
Sleep and timer playback:

For example, you can fall asleep listening to the radio and wake up to CD in the next morning.

Sleep and timer recording:

For example, you can fall asleep listening to the CD and record radio programmes whilst sleeping.

1 Set the sleep time (see left, steps 1 - 5).
2 Whilst the sleep timer is set, set the timer playback or recording (steps 2 - 10, pages 37 - 38).


Sleep timer setting
Timer playback or recording setting
End time
1 minute - 3 hours
Desired time
Sleep operation will automatically stop.
Timer playback or recording start time

Caution:

When using the cassette deck, be sure the tape length is long enough to perform both functions. If you want to sleep and wake up listening to a tape, and the length of the tape is shorter than the sleep timer setting, timer playback or recording will not be possible.

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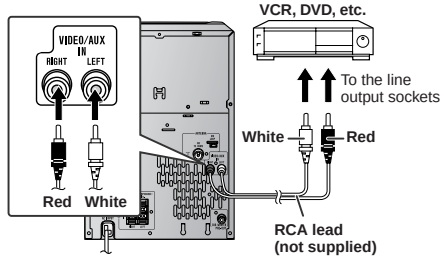
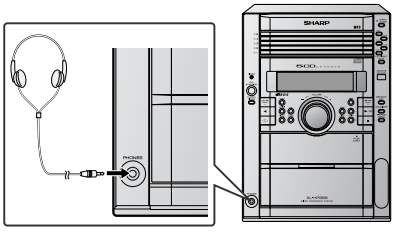
Enhancing your system

The connection lead is not included. Purchase a commercially available lead as shown below.





Auto power on function:
When you press any of the following buttons, the unit turns on.
- VIDEO/AUX button (main unit and remote control): The unit turns on and the "VIDEO" function is activated.
- ► / ⏍ button on the main unit: The unit turns on and playback of the last function starts (CD/TAPE/TUNER/VIDEO).

■ Listening to the playback sounds from VCR, DVD, etc.

1 Use a connection lead to connect the VCR, DVD, etc. to the VIDEO/AUX IN sockets.

When using video equipment, connect the audio output to this unit and the video output to a television.

2 Press the ON/STAND-BY button to turn the power on.

3 Press the VIDEO/AUX button.

4 Play the connected equipment.

Note:
To prevent noise interference, place the unit away from the television.

■ To record on a tape

1 Insert a cassette in the cassette compartment.

2 Press the VIDEO/AUX button.

3 Press the ●II button.

4 Press the ► / ⏍ (►) or ◄ (◄) button.

5 Play the VCR, DVD, etc.

■ Headphones

- Before plugging in or unplugging the headphones, reduce the volume.
- Be sure your headphones have a 3.5 mm (1/8") diameter plug and are between 16 ohms and 50 ohms impedance. The recommended impedance is 32 ohms.
- Plugging in the headphones disconnects the speakers automatically. Adjust the volume using the VOLUME control.

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Troubleshooting chart

Many potential problems can be resolved by the owner without calling a service technician.
If something is wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

■ General

Symptom	Possible cause
● The clock is not set to the correct time.	● Did a power failure occur? Reset the clock. (Refer to page 14.)
● When a button is pressed, the unit does not respond.	● Set the unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it. (Refer to page 43.)
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?

■ CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

■ Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-prevention tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? (You cannot record on a metal or CrO_2 tape.)
● Sound skipping. ● Cannot hear treble. ● Sound fluctuation.	● Is there slack in the tape? ● Is the tape stretched? ● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment with great force.

■ Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power lead of the unit plugged in? ● Is the battery polarity correct? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

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Troubleshooting chart (continued)

■ Tuner

Symptom	Possible cause
● The radio makes unusual noises continuously.	● Is the unit placed near the TV or computer? ● Is the FM aerial or AM loop aerial placed properly? Move the aerial away from the AC power lead if it's located nearby.

■ Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control. Condensation can cause the unit to malfunction. If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

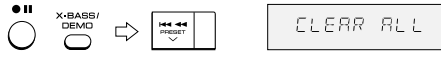
1 Set the unit to the stand-by mode and turn the power on again.
2 If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

Note:

If neither operation above restores the unit, clear all the memory by resetting it.

■ Clearing all the memory (reset)

1 Press the ON/STAND-BY button to enter the power stand-by mode.
2 Whilst pressing down the ●II button and the X-BASS/DEMO button, press the I◄◄ ◄◄ PRESET ∨ button until "CLEAR ALL" appears.



Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, and CD programme.

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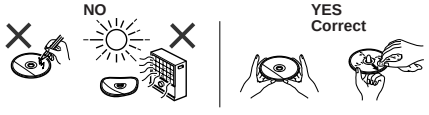
■ Before transporting the unit

Remove all CDs from the unit. Make sure there is no CD in the disc tray. Then, set the unit to the power stand-by mode. Carrying the unit with discs left inside can damage the unit.

■ Care of compact discs

Compact discs are fairly resistant to damage, however mistracking can occur due to an accumulation of dirt on the disc surface. Follow the guidelines below for maximum enjoyment from your CD collection and player.

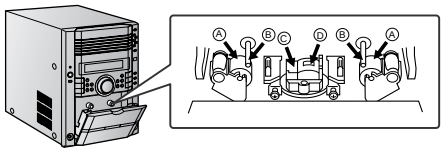
- Do not write on either side of the disc, particularly the non-label side from which signals are read. Do not mark this surface.
- Keep your discs away from direct sunlight, heat, and excessive moisture.
- Always hold the CDs by the edges. Fingerprints, dirt, or water on the CDs can cause noise or mistracking. If a CD is dirty or does not play properly, clean it with a soft, dry cloth, wiping straight out from the centre, along the radius.



Maintenance

■ Cleaning the tape-handling parts

- Dirty heads, capstans or pinch rollers can cause poor sound and tape jams. Clean these parts with a cotton swab moistened with commercial head/pinch roller cleaner or isopropyl alcohol.
- When cleaning the heads, pinch rollers, etc., unplug the unit which contains high voltages.



Ⓐ Pinch roller
Ⓑ Capstan
Ⓒ Erase head
Ⓓ Recording/Playback head

- After long use, the deck's heads and capstans may become magnetised, causing poor sound. Demagnetise these parts once every 30 hours of playing/recording time by using a commercial tape head demagnetiser. Read the demagnetiser's instructions carefully before use.

■ Cleaning the cabinet

Periodically wipe the cabinet with a soft cloth and a diluted soap solution, then with a dry cloth.

Caution:

- Do not use chemicals for cleaning (petrol, paint thinner, etc.). It may damage the cabinet finish.
- Do not apply oil to the inside of the unit. It may cause malfunctions.

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Specifications

As part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■ General

Power source	AC 230 V, 50 Hz
Power consumption	Power on: 100 W Power stand-by: 0.6 W (*)
Dimensions	Width: 185 mm (7-1/4") Height: 260 mm (10-1/4") Depth: 307 mm (12")
Weight	6.0 kg (13.2 lbs.)

(*)This power consumption value is obtained when the demonstration mode is cancelled in the power stand-by mode. Refer to page 9 to cancel the demonstration mode.

■ Amplifier

Output power	PMPO: 364 W MPO: 182 W (91 W + 91 W) (DIN 45 324) RMS: 100 W (50 W + 50 W) (DIN 45 324) RMS: 76 W (38 W + 38 W) (DIN 45 500)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Subwoofer pre-output (audio signal): 200 mV/10 k ohms at 70 Hz
Input terminals	Video/Auxiliary (audio signal): 500 mV/47 k ohms

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 522 - 1,620 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	50 dB (recording/playback)
Wow and flutter	0.35 % (DIN 45 511)

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■ Speaker

Type	2-way type speaker system 5 cm (2") tweeter 13 cm (5-1/8") woofer
Maximum input power	100 W
Rated input power	50 W
Impedance	6 ohms
Dimensions	Width: 165 mm (6-1/2") Height: 261 mm (10-1/4") Depth: 200 mm (7-7/8")
Weight	2.4 kg (5.3 lbs.)/each

■ Active subwoofer

Power source	AC 230 V, 50 Hz
Power consumption	83 W
Output power	PMPO: 400 W MPO: 200 W (DIN 45 324) RMS: 100 W (DIN 45 324) RMS: 66 W (DIN 45 500)
Input terminals	Subwoofer input (audio signal): 200mV / 10 k ohms At 70 Hz
Speaker type	20 cm (7-7/8") woofer
Impedance	6 ohms
Dimensions	Width: 220 mm (8-5/8") Height: 332 mm (13-1/16") Depth: 395 mm (15-9/16")
Weight	9.6 kg (21.1 lbs.)

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